Claims

- 1. Monoclonal antibodies against the epitope YPYDVPDYA which is derived from the haemagglutinin of the human influenza virus, or fragments thereof, wherein they have an affinity of $> 10^8 \ M^{-1}$.
- 2. Monoclonal antibodies as claimed in claim 1, wherein they have an affinity of $10^9 10^{10} \text{ M}^{-1}$.
- 3. Monoclonal antibodies as claimed in one of the claims 1 or 2, wherein they are produced by hybridomas which are obtained by fusing mouse P3x63-Ag8.653 myeloma cells with B lymphocytes from Lou/C rats where the Lou/C rats were immunized with a HA peptide.
- 4. Monoclonal antibodies as claimed in claim 3, wherein the immunization is carried out with a HA peptide coupled to keyhole limpet haemocyanin (KLH).
- 5. Monoclonal antibodies as claimed in one of the claims 1 to 4, wherein they are produced by the hybridoma R 3A12 deposited at the "Deutsche Sammlung für Mikroorganismen und Zellkulturen" under the No. DSM ACC2286 (08.10.1996).
- 6. Process for the production of monoclonal antibodies as claimed in one of the claims 1 to 5, wherein a HA peptide is synthesized and it is used to

immunize small mammals, the B lymphocytes are isolated from the spleen of the animals and fused with mouse P3x63-Ag8.653 myeloma cells, the clones that are formed which bind to a HA peptide and to a HA fusion protein are selected and the clones with a high affinity are selected from these and established as hybrid cell lines.

- 7. Process as claimed in claim 6, wherein the acetyl-YPYDVPDYAGSGSK (ε-biotin v1) amide or biotinoyl-ε-Aca-SGSGYPYDVPDYA amide is used as the HA peptide.
- 8. Process as claimed in claim 6 or 7, wherein HAtagged glutathione-S-transferase is used as the HA fusion protein.
- 9. Use of monoclonal antibodies as claimed in one of the claims 1 to 5, wherein they are used to detect and isolate native haemagglutinin of the human influenza virus, modified haemagglutinin or HA fusion proteins.

